



Attorney's Docket No. 074451.P024C

PATENT

#59/BP  
10/23  
161

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Ahmad Zandi

Application No.: 08/941,466

Filed: 9/30/1997

For: Method for Compression Using  
Reversible Embedded Wavelets

Examiner: Timothy M. Johnson

Art Unit: 2623

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Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

Enclosed is a copy of Information Disclosure Citation Form PTO-1449 or PTO/SB/08 together with copies of the documents cited on that form, except for copies not required to be submitted (e.g., copies of U.S. patents and U.S. published patent applications need not be enclosed for applications filed after June 30, 2003). It is respectfully requested that the cited documents be considered and that the enclosed copy of Information Disclosure Citation Form PTO-1449 or PTO/SB/08 be initialed by the Examiner to indicate such consideration and a copy thereof returned to applicant(s).

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450 on 12-7-04.

Tina Wainright

(Typed or printed name of person mailing correspondence)

(Date of Deposit)

Angele M. Quinn

(Signature of person mailing correspondence)

Pursuant to 37 C.F.R. § 1.97, the submission of this Information Disclosure Statement is not to be construed as a representation that a search has been made and is not to be construed as an admission that the information cited in this statement is material to patentability.

Pursuant to 37 C.F.R. § 1.97, this Information Disclosure Statement is being submitted under one of the following (as indicated by an "X" to the left of the appropriate paragraph):

\_\_\_\_\_ 37 C.F.R. §1.97(b).

  X   37 C.F.R. §1.97(c). If so, then enclosed with this Information Disclosure Statement is one of the following:

\_\_\_\_\_ A statement pursuant to 37 C.F.R. §1.97(e) or

  X   A check for \$180.00 for the fee under 37 C.F.R. § 1.17(p).

\_\_\_\_\_ 37 C.F.R. §1.97(d). If so, then enclosed with this Information Disclosure Statement are the following:

- (1) A statement pursuant to 37 C.F.R. §1.97(e); and
- (2) A check for \$180.00 for the fee under 37 C.F.R. §1.17(p) for submission of the Information Disclosure Statement.

If there are any additional charges, please charge Deposit Account No. 02-2666.

Respectfully submitted,

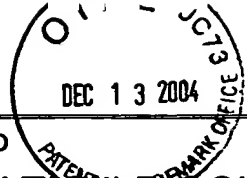
BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP

Dated: 12/6, 2011



\_\_\_\_\_  
Michael J. Mallie  
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Los Angeles, CA 90025  
(408) 720-8300



Substitute for Form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

**Complete if Known**

Application Number	08/941,466
Filing Date	9/30/1997
First Named Inventor:	Ahmad Zandi
Art Unit	2623
Examiner Name	Timothy M. Johnson
Attorney Docket Number	074451.P024C

Sheet 1 of 5

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)				
		us-	4,437,087	3/13/1984	Petr	RECEIVED DEC 16 2004 Technology Center 2600
		us-	4,751,742	6/14/1988	Meeker	
		us-	4,881,075	11/14/1989	Weng	
		us-	4,899,147	2/6/1990	Schiavo et al.	
		us-	4,929,946	5/29/1990	O'Brien et al.	
		us-	4,973,961	11/27/1990	Chamzas et al.	
		us-	5,097,261	3/17/1992	Langdon, Jr. et al.	
		us-	5,223,926	6/29/1993	Stone, et al.	
		us-	5,276,525	1/4/1994	Gharavi	
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		us-	5,379,355	1/3/1995	Allen	
		us-	5,414,780	5/9/1995	Carnahan	
		us-	5,416,604	5/16/1995	Park	
		us-	5,511,151	4/23/1996	Russell et al.	
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		us-	5,638,498	6/10/1997	Tyler et al.	
		us-	5,701,367	12/23/1997	Koshi et al.	
		us-	5,717,789	2/10/1998	Anderson, et al.	
		us-	5,754,793	5/19/1998	Eom et al.	
		us-	5,808,683	9/15/1998	Tong et al.	
		us-	5,809,176	9/15/1998	Yajima	
		us-	5,850,482	12/15/1998	Meany et al.	
		us-	5,867,602	2/2/1999	Zandi et al.	
		us-	5,880,856	3/9/1999	Ferriere	
		us-	5,966,465	10/12/1999	Keith et al.	
		us-	6,020,975	2/1/2000	Chen et al.	
		us-	6,026,198	2/15/2000	Okada	
		us-	6,088,062	7/11/2000	Kanou et al.	
		us-	6,101,279	8/8/2000	Nguyen et al.	
		us-	6,118,902	9/12/2000	Knowles	
		us-	6,121,970	9/19/2000	Guedalia	
		us-	6,128,413	10/3/2000	Benamara	
		us-	6,160,846	12/12/2000	Chiang	
		us-	6,201,897 B1	3/13/2001	Nixon	
		us-	6,229,929 B1	5/8/2001	Lynch et al.	
		us-	6,236,765 B1	5/22/2001	Archarya	
		us-	6,237,010 B1	5/22/2001	Hui et al.	
		us-	6,263,109 B1	7/17/2001	Ordentlich et al.	
		us-	6,263,120 B1	7/17/2001	Matsuoka	
		us-	6,327,392 B1	12/4/2001	Li	
		us-	6,330,666 B1	12/11/2001	Wise et al.	
		us-	6,339,658 B1	1/15/2002	Moccagatta et al.	
		us-	6,350,989 B1	2/26/2002	Lee et al.	

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INFORMATION DISC

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

**Complete if Known**

Application Number	08/941,466
Filing Date	9/30/1997
First Named Inventor:	Ahmad Zandi
Art Unit	2623
Examiner Name	Timothy M. Johnson
Attorney Docket Number	074451.P024C

Sheet	2	of	5
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Examiner Signature		Date Considered	
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This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SENT FEES OR COMPLETED FORMS TO THIS ADDRESS.

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Substitute for Form 1449/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>				<b>Complete if Known</b>	
				Application Number	08/941,466
				Filing Date	9/30/1997
				First Named Inventor:	Ahmad Zandi
				Art Unit	2623
				Examiner Name	Timothy M. Johnson
Sheet	3	of	5	Attorney Docket Number	074451.P024C

## FOREIGN PATENT DOCUMENTS

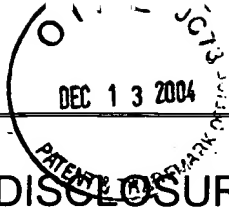
[illegible]

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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language translation is attached.

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			Application Number	08/941,456	
			Filing Date	9/30/1997	
			First Named Inventor:	Ahmad Zaidi	
			Art Unit	2623	
			Examiner Name	Timothy J. Lutz	
Sheet	4	of	5	Attorney Docket Number	074451.P024C

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NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
		BLUMBERG, et al., "Visual Realism and Interactivity for the Internet", IEEE, 1997, pp. 269-273.	
		BOLIEK, et al., "Decoding compression with reversible embedded wavelets (CREW) codestreams", Journal of Electronic Imaging, July 1998, vol. 7 (3), pp. 402-409.	
		BOLIEK, et al., "JPEG 2000 for Efficient Imaging in a Client/Server Environment", Proceeding of the PIE, SPIE, Bellingham, VA, US, Vol. 4472, July 31, 2001, pp. 212-223, XP008010308.	
		BOLIEK, et al., "JPEG 2000 Next Generation Image Compression System", IEEE 0-7803-6297, 45-48	
		CALDERBANK, et al., "Wavelet Transforms That Map Integers to Integers", August 1996.	
		CAREY, et al: "Regularity-Preserving Image Interpolation", IEEE Transactions on Image Processing, Vol. 8., No. 9, September 1999, pgs. 1293-1297, XP002246254.	
		CARRATO, et al: "A Simple Edge-Sensitive Image Interpolation Filter", Proceedings of the International Conference on Image Processing (ICIP) Lausanne, Sept. 16-19, 1996, New York, IEEE, US, vol. 1, pgs. 711-714, XP010202493.	
		CHRYSAFIS, et al., "An Algorithm for Low Memory Wavelet Image Compression", IEEE 0-7803-5467-2/99, pg. 354-358.	
		CHRYSAFIS, et al., "Line Based Reduced Memory, Wavelet Image Compression," Data Compression Conference, 1998, DCC '98, Proceedings Snowbird, UT, March 1998, pgs. 398-407.	
		CHUI, et al., "Wavelets on a Bounded Interval", <u>Numerical Methods of Approximation Theory</u> , Vol. 9, 1992, pg. 53-75.	
		DENK, et al., "Architectures for Lattice Structure Based Orthonormal Discrete Wavelet Transforms", IEEE, 1994, pp. 259-270.	
		DESHPANDE, et al., "HTTP Streaming of JPEG2000 Images", IEEE, 2001, pp.15-19.	
		Dutch Search Report, 133082, 11/26/96.	
		French Search Report, FR9511023, 11/26/96.	
		French Search Report, FR9511024, 11/26/96.	
		GORDON, BENJAMIN M., et al., "A 1.2 mW Video-Rate 2-D Color Subband Decoder," IEEE Journal of Solid-State Circuits, IEEE Inc. New York, Vol. 30, No. 12, Dec. 1, 1995, pgs. 1510-1516.	
		HAUF, et al., "The FlashPix™ Image File Format", The Fourth Color Imaging Conference: Color Science, Systems and Application, 1996, pp. 234-238.	
		Information Technology - JPEG 2000 Image Coding System - Part 1: Core Coding System, ISO/IEC 15444-1, 12/15/2000, pg. 5, 14, 22.	
		JPEG 2000 Part 1 Final Committee Draft Version 1.0, Image Compression Standard described in ISO/IEC 1/SC 29/WG 1 N1646, 16 March 2000.	
		LE GALL, et al., "Sub-band coding of Digital Images Using Symmetric Short Kernal Filters and Arithmetic Coding Techniques", 1988, International Conference on Acoustics, Speech and Signal Processing, pp. 761-764.	

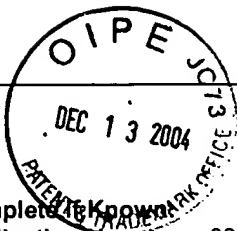


Substitute for Form 1449/PTO				Complete if Known	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (use as many sheets as necessary)				Application Number	08/941,466
				Filing Date	9/30/1997
				First Named Inventor:	Ahmad Zandi
				Art Unit	2623
				Examiner Name	Timothy M. Johnson
Sheet	5	of	5	Attorney Docket Number	074451.P024C
<b>NON PATENT LITERATURE DOCUMENTS</b>					
Examiner Initials*	Cite No <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published			T <sup>2</sup>
		MARCELLIN, et al., "An Overview of JPEG-2000", Proceedings. DCC 2000 Snowbird, UT, USA, March 28-30, 2000, pp. 523-541, XP010377392.			
		MENG, TERESA H., "A Wireless Portable Video-on-Demand System," VLSI Design, 1998, Proceedings Eleventh International Conference on Chennai, India 407, Jan. 1998, California, pgs. 4-9.			
		PADMANABHAN, et al., "Feedback-Based Orthogonal Digital Filters", IEEE Transactions on Circuits and Systems, 8/93, No. 8, pp. 512-525.			
		REEVES, et al: "Multiscale-Based Image Enhancement", Electrical and Computer Engineering, 1997. Engineering Innovation: Voyage of Discovery. IEEE 1997 Canadian Conference on St. Johns, NFLD., Canada May 25-28, 1997, New York, NY. (pgs. 500-503), XP010235053			
		SAID, et al., "Reversible Image Compression Via Multiresolution representation and Predictive Coding", 8/11/93, pp. 664-674.			
		STOFFEL, et al: "A Survey Of Electronic Techniques For Pictorial Image Reproduction," IEEE Transactions On Communications, vol. COM-29, no. 12, December 1981, pp. 1898-1925, XP000560531 IEEE, New York (US).			
		SZU, et al., "Image Wavelet Transforms Implemented by Discrete Wavelet Chips", Optical Engineering, July 1994, Vol. 33, No. 7, pp.2310-2325.			
		WU, et al., "New Compression Paradigms in JPEG2000", Applications of Digital Image Processing XXIII, San Diego, CA USA, July 31-Aug 3, 2000, vol. 4115, pp. 418-429, XP008013391, Proceedings of the DPiE - The International Society for Optical Engineering, 2000, SPIE-Int. Soc. Opt. Eng., USA.			
		XIONG, et al., "Joint Optimization of Scalar and Tree-structured Quantization of Wavelet Image Decompositions", 01/11/93, pp. 891-895.			

Examiner Signature	Date Considered
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SENT FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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**FEE TRANSMITTAL FOR FY 2004**

(FY 2004 Begins 10/01/2003)

TOTAL AMOUNT OF PAYMENT (\$) 180.00

Complete Known Trademark Office  
Application No. 08/941,466  
Filing Date 9/30/1997  
First Named Inventor Ahmad Zandi  
Examiner Name Timothy M. Johnson  
Art Unit 2623  
Attorney Docket No. 074451.P024C

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☐ Applicant claims small entity status. See 37 CFR 1.27.**METHOD OF PAYMENT** (check all that apply)☒ Check ☐ Credit Card ☐ Money Order ☐ Other ☐ None☒ Deposit AccountDeposit Account Number : 02-2666

Deposit Account Name: \_\_\_\_\_

☒ The Director is Authorized to do the following with respect to the above-identified Deposit Account:☐ Charge fee(s) indicated below.☒ Credit any overpayments.☒ Charge any additional fees during the pendency of this application.☒ Any concurrent or future reply that requires a petition for extension of time should be treated as incorporating an appropriate petition for extension of time and all required fees should be charged.☐ Charge fee(s) indicated below except for the filing fee.**FEE CALCULATION****1. BASIC FILING FEE**

Large Entity		Small Entity		Fee Description	Fee Paid
Code	Fee (\$)	Code	Fee (\$)		
1001	770	2001	385	Utility application filing fee	_____
1002	340	2002	170	Design application filing fee	_____
1003	530	2003	265	Plant filing fee	_____
1004	770	2004	385	Reissue filing fee	_____
1005	160	2005	80	Provisional application filing fee	_____
SUBTOTAL (1) \$					_____

**2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE**

			Extra Claims	Fee from below	Fee Paid
Total Claims	_____	- 20** =	_____	X	_____
Independent Claims	_____	- 3** =	_____	X	_____
Multiple Dependent	_____				_____

\*\*Or number previously paid, if greater; For Reissues, see below.

Large Entity		Small Entity		Fee Description
Code	Fee (\$)	Code	Fee (\$)	
1202	18	2202	9	Claims in excess of 20
1201	86	2201	43	Independent claims in excess of 3
1203	290	2203	145	Multiple dependent claim, if not paid
1204	86	2204	43	**Reissue independent claims over original patent
1205	18	2205	9	**Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) \$ \_\_\_\_\_



**FEE CALCULATION (continued)****3. ADDITIONAL FEES**

<u>Large Entity</u>		<u>Small Entity</u>		<u>Fee Description</u>	<u>Fee Paid</u>
<u>Fee Code</u>	<u>Fee (\$)</u>	<u>Fee Code</u>	<u>Fee (\$)</u>		
1051	130	2051	65	Surcharge - late filing fee or oath	_____
1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet	_____
1053	130	1053	130	Non-English specification	_____
1812	2,520	1812	2,520	For filing a request for ex parte reexamination	_____
1813	8,800	1813	8,800	Request for inter parties reexamination	_____
1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	_____
1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	_____
1251	110	2251	55	Extension for reply within first month	_____
1252	420	2252	210	Extension for reply within second month	_____
1253	950	2253	475	Extension for reply within third month	_____
1254	1,480	2254	740	Extension for reply within fourth month	_____
1255	2,010	2255	1,005	Extension for reply within fifth month	_____
1401	330	2401	165	Notice of Appeal	_____
1402	330	2402	165	Filing a brief in support of an appeal	_____
1403	290	2403	145	Request for oral hearing	_____
1451	1,510	1451	1,510	Petition to institute a public use proceeding	_____
1452	110	2452	55	Petition to revive - unavoidable	_____
1453	1,330	2453	665	Petition to revive - unintentional	_____
1501	1,330	2501	665	Utility issue fee (or reissue)	_____
1502	480	2502	240	Design issue fee	_____
1503	640	2503	320	Plant issue fee	_____
1460	130	1460	130	Petitions to the Commissioner	_____
1807	50	1807	50	Processing fee under 37 CFR 1.17(q)	_____
1806	180	1806	180	Submission of Information Disclosure Stmt	<u>180.00</u>
8021	40	8021	40	Recording each patent assignment per property (times number of properties)	_____
1809	770	2809	385	For filing a submission after final rejection (see 37 CFR 1.129(a))	_____
1814	110	2814	55	Statutory Disclaimer	_____
1810	770	2810	385	For each additional invention to be examined (see 37 CFR 1.129(b))	_____
1801	770	2801	385	Request for Continued Examination (RCE)	_____
1802	900	1802	900	Request for expedited examination of a design application	_____
1504	300	1504	300	Publication fee for early, voluntary, or normal pub.	_____
1505	300	1505	300	Publication fee for republication	_____
1803	130	1803	130	Request for voluntary publication or republication	_____
1808	130	1808	130	Processing fee under 37 CFR 1.17(i) (except provisionals)	_____
1454	1,330	1454	1,330	Acceptance of unintentionally delayed claim for priority	_____
Other fee (specify) _____					_____
Other fee (specify) _____					_____
<b>SUBTOTAL (3)</b>					<b>\$ 180.00</b>

\*Reduced by Basic Filing Fee Paid

**SUBMITTED BY:**Typed or Printed Name: Michael J. MallieSignature: Date: 12/16/04Reg. Number: 36,591Telephone Number: (408) 720-8300

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